

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Reclamation District No. 2060 Hastings

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 01 Lindsey Slough			Left	6.97
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/28/2018 - 3/28/2018			
DWR Inspector	Keith Millard			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			
	Jack Kuechler RD 2060			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2060_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 2060 has the O&M Manual on file.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2060_01_f_2014_7				
Comment Code					
Inspector Comment					
RD 2060 has emergency supplies on hand.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2060_01_s_2012_12				
Comment Code					
Inspector Comment					
RD 2060 has trained staff for a flood fight.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.30	Rating **	M	Issue No.	57
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.247623 °	38.247623 °
				-121.701642 °	-121.701642 °
DWR ID	DWR_RD2060_01_s_2018_57				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large tree trunk was hauled out of water in 2017. Should be removed from waterside berm.					

Photo 1 of 1 : SP_2018_RD2060_241_57_20180328_00146.jpg



Remove tree trunk from waterside slope.

LM Start	0.40	Rating **	M	Issue No.	5
LM End	0.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.247894 °	38.247911 °
				-121.703492 °	-121.703539 °
DWR ID	DWR_RD2060_01_f _ 2017_5				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.					
Site ID No:358					
Site Designation:LMA-185					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Small erosion into bank.					

Photo 1 of 6 : SP_2018_RD2060_241_5_20180305_00001.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

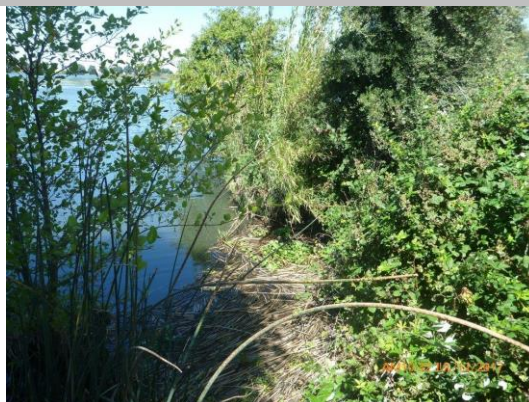
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.40	Rating **	M	Issue No.	5 (cont)	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.247894 °	38.247911 °	
				-121.703492 °	-121.703539 °	
DWR ID	DWR_RD2060_01_f _ 2017_5					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.						
Site ID No:358						
Site Designation:LMA-185						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Small erosion into bank.						

Photo 2 of 6 : SP_2018_RD2060_241_5_20180305_00002.jpg



Photo 3 of 6 : SP_2018_RD2060_241_5_20180305_00003.jpg



LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.40	Rating **	M	Issue No.	5 (cont)	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.247894 °		38.247911 °
				-121.703492 °		-121.703539 °
DWR ID	DWR_RD2060_01_f _ 2017_5					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.						
Site ID No:358						
Site Designation:LMA-185						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Small erosion into bank.						

Photo 4 of 6 : SP_2018_RD2060_241_5_20180305_00004.jpg



Photo 5 of 6 : SP_2018_RD2060_241_5_20180305_00005.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.41	Rating **	M	Issue No.	8 (cont)	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.248036°	38.248017°	
				-121.703539°	-121.703789°	
DWR ID	DWR_RD2060_01_f_2017_8					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Existing rip rap appears to have been pulled off in this section.						
Site ID No:359						
Site Designation:LMA-186						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Site had riprap but is eroded away. Minor erosion in toe of levee.						

Photo 2 of 3 : SP_2018_RD2060_241_8_20180305_00008.jpg



Photo 3 of 3 : SP_2018_RD2060_241_8_20180305_00009.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.75	Rating **	M	Issue No.	9	
LM End	0.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.249314 °	38.249400 °	
				-121.709461 °	-121.709608 °	
DWR ID	DWR_RD2060_01_f_2017_9					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Erosion is concentrated near the waterline. Existing rip rap appears to have been pulled off in this section.						
Site ID No:360						
Site Designation:LMA-187						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Erosion looks old but has progressed this year.						

Photo 1 of 3 : SP_2018_RD2060_241_9_20180305_00010.jpg



Photo 2 of 3 : SP_2018_RD2060_241_9_20180305_00011.jpg



LM Start	0.75	Rating **	M	Issue No.	9 (cont)
LM End	0.76	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.75	Rating **	M	Issue No.	9 (cont)							
LM End	0.76	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.249314 °	38.249400 °								
			-121.709461 °	-121.709608 °								
DWR ID	DWR_RD2060_01_f_2017_9											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Erosion is concentrated near the waterline. Existing rip rap appears to have been pulled off in this section.</p> <p>Site ID No: 360</p> <p>Site Designation: LMA-187</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/12/2017</p> <p>Notes: Erosion looks old but has progressed this year.</p>												

Photo 3 of 3 : SP_2018_RD2060_241_9_20180305_00012.jpg



LM Start	0.92	Rating **	M	Issue No.	10							
LM End	0.93	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.250875 °	38.250953 °								
			-121.711942 °	-121.712078 °								
DWR ID	DWR_RD2060_01_f_2017_10											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Sloughing commences approximately halfway down the water side slope.</p> <p>Site ID No: 361</p> <p>Site Designation: LMA-188</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/12/2017</p> <p>Notes: Minor sloughing, mostly riprap has moved down the slope and into channel.</p>												

Photo 1 of 4 : SP_2018_RD2060_241_10_20180305_00013.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.92	Rating **	M	Issue No.	10 (cont)
LM End	0.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250875 °	38.250953 °
				-121.711942 °	-121.712078 °
DWR ID	DWR_RD2060_01_f_2017_10				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing commences approximately halfway down the water side slope.					
Site ID No:361					
Site Designation:LMA-188					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Minor sloughing, mostly riprap has moved down the slope and into channel.					

Photo 2 of 4 : SP_2018_RD2060_241_10_20180305_00014.jpg



Photo 3 of 4 : SP_2018_RD2060_241_10_20180305_00015.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	0.92	Rating **	M	Issue No.	10 (cont)	
LM End	0.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.250875 °	38.250953 °	
				-121.711942 °	-121.712078 °	
DWR ID	DWR_RD2060_01_f_2017_10					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Sloughing commences approximately halfway down the water side slope.						
Site ID No:361						
Site Designation:LMA-188						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Minor sloughing, mostly riprap has moved down the slope and into channel.						

Photo 4 of 4 : SP_2018_RD2060_241_10_20180305_00016.jpg



LM Start	1.04	Rating **	M	Issue No.	15
LM End	1.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251058 °	38.250872 °
				-121.714050 °	-121.714792 °
DWR ID	DWR_RD2060_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline.					
Site ID No:362					
Site Designation:LMA-189					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Erosion due to lack of revetment. Erosion ends at riprap downstream. Vertical cut at summer wse.					

Photo 1 of 3 : SP_2018_RD2060_241_15_20180305_00017.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.04	Rating **	M	Issue No.	15 (cont)
LM End	1.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251058 °	38.250872 °
				-121.714050 °	-121.714792 °
DWR ID	DWR_RD2060_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline.					
Site ID No:362					
Site Designation:LMA-189					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Erosion due to lack of revetment. Erosion ends at riprap downstream. Vertical cut at summer wse.					

Photo 2 of 3 : SP_2018_RD2060_241_15_20180305_00018.jpg



Photo 3 of 3 : SP_2018_RD2060_241_15_20180305_00019.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.09	Rating **	M	Issue No.	16
LM End	1.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250844 °	38.250833 °
				-121.714944 °	-121.714994 °
DWR ID	DWR_RD2060_01_f_2017_16				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe.					
Site ID No:363					
Site Designation:LMA-190					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/12/2017					
Notes: Small erosion up to high water line. Cuts into slope with 6' vertical cut.					

Photo 1 of 3 : SP_2018_RD2060_241_16_20180305_00020.jpg



Photo 2 of 3 : SP_2018_RD2060_241_16_20180305_00021.jpg



LM Start	1.09	Rating **	M	Issue No.	16 (cont)
LM End	1.10	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.09	Rating **	M	Issue No.	16 (cont)	
LM End	1.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.250844 °	38.250833 °	
				-121.714944 °	-121.714994 °	
DWR ID	DWR_RD2060_01_f_2017_16					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope extending to the toe.						
Site ID No:363						
Site Designation:LMA-190						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/12/2017						
Notes: Small erosion up to high water line. Cuts into slope with 6' vertical cut.						

Photo 3 of 3 : SP_2018_RD2060_241_16_20180305_00022.jpg



LM Start	1.22	Rating **	A/W	Issue No.	17	
LM End	1.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.251186 °	38.251289 °	
				-121.717114 °	-121.717264 °	
DWR ID	DWR_RD2060_01_f_2017_17					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description: Erosion commences approximately 1/4 of the way down the water side slope extending to the toe.						
Site ID No:364						
Site Designation:LMA-191						
Repair Type: Erosion						
Rating:Critical						
Field Date:7/12/2017						
Notes: Very deep erosion that extends halfway into slope. Intact riprap on both sdes of erosion. Rated serious but could be critical if erosion cuts deep into prism.						

Photo 1 of 3 : SP_2018_RD2060_241_17_20180305_00023.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.22	Rating **	A/W	Issue No.	17 (cont)	
LM End	1.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.251186°	38.251289°	
				-121.717114°	-121.717264°	
DWR ID	DWR_RD2060_01_f_2017_17					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 1/4 of the way down the water side slope extending to the toe.						
Site ID No:364						
Site Designation:LMA-191						
Repair Type: Erosion						
Rating:Critical						
Field Date:7/12/2017						
Notes: Very deep erosion that extends halfway into slope. Intact riprap on both sdes of erosion. Rated serious but could be critical if erosion cuts deep into prism.						

Photo 2 of 3 : SP_2018_RD2060_241_17_20180305_00024.jpg



LM Start	1.22	Rating **	A/W	Issue No.	17 (cont)
LM End	1.23	Issue Type +	Ma	Location *	

Photo 3 of 3 : SP_2018_RD2060_241_17_20180305_00025.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.39	Rating **	A/W	Issue No.	20 (cont)	
LM End	1.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.251886 °	38.252619 °	
				-121.719933 °	-121.722842 °	
DWR ID	DWR_RD2060_01_f_2017_20					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope extending to the toe.						
Site ID No:365						
Site Designation:LMA-192						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/12/2017						
Notes: Several deep narrow cuts into levee, but mostly minor erosion at highwater line.						

Photo 3 of 3 : SP_2018_RD2060_241_20_20180305_00028.jpg



LM Start	1.45	Rating **	A/W	Issue No.	11
LM End	1.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252013 °	38.252013 °
				-121.720945 °	-121.720945 °
DWR ID	DWR_RD2060_01_s_2017_11				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.46	Rating **	A/W	Issue No.	13
LM End	1.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252038 °	38.252070 °
				-121.721212 °	-121.721440 °
DWR ID	DWR_RD2060_01_s_2017_13				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

LM Start	1.49	Rating **	A/W	Issue No.	14
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252130 °	38.252130 °
				-121.721637 °	-121.721637 °
DWR ID	DWR_RD2060_01_s_2017_14				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.81	Rating **	A/W	Issue No.	21
LM End	1.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.255972 °	38.256247 °
				-121.724197 °	-121.724464 °
DWR ID	DWR_RD2060_01_f_2017_21				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred due to deep erosion.					
Site ID No:366					
Site Designation:LMA-193					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/12/2017					
Notes: Erosion extends halfway into the slope.					

Photo 1 of 3 : SP_2018_RD2060_241_21_20180305_00029.jpg



Photo 2 of 3 : SP_2018_RD2060_241_21_20180305_00030.jpg



LM Start	1.81	Rating **	A/W	Issue No.	21 (cont)
LM End	1.84	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.81	Rating **	A/W	Issue No.	21 (cont)
LM End	1.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.255972 °	38.256247 °
				-121.724197 °	-121.724464 °
DWR ID	DWR_RD2060_01_f_2017_21				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred due to deep erosion.					
Site ID No:366					
Site Designation:LMA-193					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/12/2017					
Notes: Erosion extends halfway into the slope.					

Photo 3 of 3 : SP_2018_RD2060_241_21_20180305_00031.jpg



LM Start	1.90	Rating **	M	Issue No.	22
LM End	1.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.257208 °	38.257842 °
				-121.724619 °	-121.724694 °
DWR ID	DWR_RD2060_01_f_2017_22				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description:Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred. Site ID No:367 Site Designation:LMA-194 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017 Notes: Minor crackingobserved below the hinge point and minor erosion at levee toe.					

Photo 1 of 3 : SP_2018_RD2060_241_22_20180305_00032.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	1.90	Rating **	M	Issue No.	22 (cont)
LM End	1.95	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.257208 °	38.257842 °	
			-121.724619 °	-121.724694 °	
DWR ID	DWR_RD2060_01_f_2017_22				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred.
Site ID No: 367

Site Designation: LMA-194

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/12/2017

Notes: Minor cracking observed below the hinge point and minor erosion at levee toe.

LM Start	1.90	Rating **	M	Issue No.	22 (cont)
LM End	1.95	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_241_22_20180305_00033.jpg



Photo 3 of 3 : SP_2018_RD2060_241_22_20180305_00034.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	2.10	Rating **	A/W	Issue No.	23
LM End	2.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.259317 °	38.259258 °
				-121.726314 °	-121.726939 °
DWR ID	DWR_RD2060_01_f_2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the water side slope extending to the rip rap.					
Site ID No:368					
Site Designation:LMA-195					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/13/2017					
Notes: Erosion appears to be previously repaired, but has failed again.					

Photo 1 of 3 : SP_2018_RD2060_241_23_20180305_00035.jpg



Photo 2 of 3 : SP_2018_RD2060_241_23_20180305_00036.jpg



LM Start	2.10	Rating **	A/W	Issue No.	23 (cont)
LM End	2.13	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	2.57	Rating **	M	Issue No.	24 (cont)	
LM End	2.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.257467 °	38.257286 °	
				-121.734153 °	-121.734683 °	
DWR ID	DWR_RD2060_01_f_2017_24					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the water side slope. Part of the levee has sloughed down toward the waterline where further erosion occurs.						
Site ID No:369						
Site Designation:LMA-196						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/13/2017						
Notes: Levee slope is concave due slumping. Erosion at waterline.						

Photo 2 of 3 : SP_2018_RD2060_241_24_20180305_00039.jpg



Photo 3 of 3 : SP_2018_RD2060_241_24_20180305_00040.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.07	Rating **	A/W	Issue No.	25 (cont)							
LM End	3.10	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.260772 °	38.260569 °								
			-121.740817 °	-121.741194 °								
DWR ID	DWR_RD2060_01_f_2017_25											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Erosion occurs near the waterline. Part of the levee has sloughed down toward the waterline due to erosion. Site ID No: 370 Site Designation: LMA-197 Repair Type: Erosion Rating: Serious Field Date: 7/13/2017 Notes: Large erosion halfway into levee. Horizontal cracking on slope almost 24" deep.												

Photo 3 of 3 : SP_2018_RD2060_241_25_20180305_00043.jpg



LM Start	3.17	Rating **	M	Issue No.	26							
LM End	3.17	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.259925 °	38.259903 °								
			-121.742236 °	-121.742281 °								
DWR ID	DWR_RD2060_01_f_2017_26											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Erosion occurs near the waterline. Site ID No: 371 Site Designation: LMA-198 Repair Type: Erosion Rating: Area of Concern Field Date: 7/13/2017 Notes: Minor erosion with sloughing. Horizontal cracks 3.5' deep.												

Photo 1 of 3 : SP_2018_RD2060_241_26_20180305_00044.jpg



* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.17	Rating **	M	Issue No.	26 (cont)	
LM End	3.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.259925 °	38.259903 °	
				-121.742236 °	-121.742281 °	
DWR ID	DWR_RD2060_01_f_2017_26					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion occurs near the waterline.						
Site ID No:371						
Site Designation:LMA-198						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/13/2017						
Notes: Minor erosion with sloughing. Horizontal cracks 3.5' deep.						

Photo 2 of 3 : SP_2018_RD2060_241_26_20180305_00045.jpg



Photo 3 of 3 : SP_2018_RD2060_241_26_20180305_00046.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.60	Rating **	M	Issue No.	27
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261469 °	38.261464 °
				-121.748389 °	-121.748442 °
DWR ID	DWR_RD2060_01_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:373					
Site Designation:LMA-200					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small erosion with a narrow deep cut. Heavy veg is protecting the slope.					

Photo 1 of 3 : SP_2018_RD2060_241_27_20180305_00047.jpg



Photo 2 of 3 : SP_2018_RD2060_241_27_20180305_00048.jpg



LM Start	3.60	Rating **	M	Issue No.	27 (cont)
LM End	3.61	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.60	Rating **	M	Issue No.	27 (cont)
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261469 °	38.261464 °
				-121.748389 °	-121.748442 °
DWR ID	DWR_RD2060_01_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:373					
Site Designation:LMA-200					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small erosion with a narrow deep cut. Heavy veg is protecting the slope.					

Photo 3 of 3 : SP_2018_RD2060_241_27_20180305_00049.jpg



LM Start	3.65	Rating **	M	Issue No.	58
LM End	3.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.261314 °	38.261314 °
				-121.749191 °	-121.749191 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41908					
DS_ID:22050					
EP_NO: 10119					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to contact owner and verify status of crossing.					
FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS).					
Sign board on the waterside (WS). (Encroachments retained under Permit No. 10119, 1975 - Pacific Gas and Electric Company [PG&E]).					
[Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_SP_2018_41908_30541.jpg



WS view: gasoline sign board on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.65	Rating **	M	Issue No.	58 (cont)	
LM End	3.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.261314 °		38.261314 °
				-121.749191 °		-121.749191 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41908 DS_ID:22050 EP_NO: 10119 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner and verify status of crossing. FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (Encroachments retained under Permit No. 10119, 1975 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 2 of 2 : UCIP_SP_2018_41908_30540.jpg



LS view: gasoline indicator across the road from levee toe.

LM Start	3.67	Rating **	M	Issue No.	28
LM End	3.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261181 °	38.261167 °
				-121.749542 °	-121.749592 °
DWR ID	DWR_RD2060_01_f _ 2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion is concentrated near the water line.					
Site ID No:374					
Site Designation:LMA-201					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Small narrow and deep cut. May have been caused by a collapsed beaver den.					

Photo 1 of 3 : SP_2018_RD2060_241_28_20180305_00050.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.67	Rating **	M	Issue No.	28 (cont)	
LM End	3.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.261181 °		38.261167 °
				-121.749542 °		-121.749592 °
DWR ID	DWR_RD2060_01_f_2017_28					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion is concentrated near the water line.						
Site ID No:374						
Site Designation:LMA-201						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/13/2017						
Notes: Small narrow and deep cut. May have been caused by a collapsed beaver den.						

Photo 2 of 3 : SP_2018_RD2060_241_28_20180305_00051.jpg



Photo 3 of 3 : SP_2018_RD2060_241_28_20180305_00052.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.76	Rating **	M	Issue No.	59
LM End	3.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.261211 °	38.261211 °
				-121.751117 °	-121.751117 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41878 DS_ID:22045 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status and install signs if appropriate. FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_SP_2018_41878_30549.jpg



LS view: a gas plant and gasline indicator found on LS.

LM Start	3.76	Rating **	M	Issue No.	59 (cont)
LM End	3.76	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_41878_30548.jpg



LS view: closer view of gasline indicator found on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	3.76	Rating **	M	Issue No.	59 (cont)	
LM End	3.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.261211 °	38.261211 °	
				-121.751117 °	-121.751117 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41878 DS_ID:22045 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status and install signs if appropriate. FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013						

Photo 3 of 3 : UCIP_SP_2018_41878_30547.jpg



WS view: no indicators found on WS.

LM Start	4.28	Rating **	A/W	Issue No.	29
LM End	4.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260992 °	38.261017 °
				-121.759806 °	-121.759847 °
DWR ID	DWR_RD2060_01_f_2017_29				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:376					
Site Designation:LMA-203					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Could not get to erosion due to dense veg. Possibly a deep narrow cut.					

Photo 1 of 3 : SP_2018_RD2060_241_29_20180305_00053.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.28	Rating **	A/W	Issue No.	29 (cont)
LM End	4.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260992 °	38.261017 °
				-121.759806 °	-121.759847 °
DWR ID	DWR_RD2060_01_f_2017_29				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line.					
Site ID No:376					
Site Designation:LMA-203					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: Could not get to erosion due to dense veg. Possibly a deep narrow cut.					

Photo 2 of 3 : SP_2018_RD2060_241_29_20180305_00054.jpg



Photo 3 of 3 : SP_2018_RD2060_241_29_20180305_00055.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.40	Rating **	M	Issue No.	30
LM End	4.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260850 °	38.260425 °
				-121.761875 °	-121.762861 °
DWR ID	DWR_RD2060_01_f_2017_30				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope.					
Site ID No:377					
Site Designation:LMA-204					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/13/2017					
Notes: large cut is 100' of 320' site. Large cut is 12' vertical and the rest is 6'.					

Photo 1 of 3 : SP_2018_RD2060_241_30_20180305_00056.jpg



Photo 2 of 3 : SP_2018_RD2060_241_30_20180305_00057.jpg



LM Start	4.40	Rating **	M	Issue No.	30 (cont)
LM End	4.46	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.40	Rating **	M	Issue No.	30 (cont)	
LM End	4.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.260850 °	38.260425 °	
				-121.761875 °	-121.762861 °	
DWR ID	DWR_RD2060_01_f_2017_30					
Comment Code						
Inspector Comment						
Levee Evaluation Comments Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope. Site ID No:377 Site Designation:LMA-204 Repair Type: Erosion Rating:Area of Concern Field Date:7/13/2017 Notes: large cut is 100' of 320' site. Large cut is 12' vertical and the rest is 6'.						

Photo 3 of 3 : SP_2018_RD2060_241_30_20180305_00058.jpg



LM Start	4.46	Rating **	M	Issue No.	60	
LM End	4.46	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.260414 °	38.260414 °	
				-121.762943 °	-121.762943 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41988 DS_ID:22051 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation on both levee slopes. FIELD_STRUCT_DESC: *ABANDONED* 24-inch pipe of an unknown material or purpose through the levee, 17 feet below the crown. Inoperable closed slide gate on the waterside (WS) end. (Hastings Farms. Not on encroachment list). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

No Photos

* Location LS : Land Side WS : Water Side CR : Crown N/A : Not Applicable	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.50	Rating **	A/W	Issue No.	31
LM End	4.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260150 °	38.259939 °
				-121.763556 °	-121.764064 °
DWR ID	DWR_RD2060_01_f_2017_31				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 3/4 of the way down the slope. It has resulted in some sloughing.					
Site ID No:378					
Site Designation:LMA-205					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Deep, wide, vertical cut into slope almost 1/2 way into sope.					

Photo 1 of 3 : SP_2018_RD2060_241_31_20180305_00059.jpg



LM Start	4.50	Rating **	A/W	Issue No.	31 (cont)
LM End	4.53	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_241_31_20180305_00060.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.80	Rating **	A/W	Issue No.	32 (cont)	
LM End	4.88	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.260714 °	38.261808 °	
				-121.767972 °	-121.768536 °	
DWR ID	DWR_RD2060_01_f_2017_32					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope towards the toe.						
Site ID No:379						
Site Designation:LMA-206						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Several erosions with slumping. Fresh soil indicates active erosion this season. Adjacent slope has riprap. Riprap should be extended along this stretch.						

Photo 2 of 3 : SP_2018_RD2060_241_32_20180305_00063.jpg



LM Start	4.80	Rating **	A/W	Issue No.	32 (cont)
LM End	4.88	Issue Type +	Ma	Location *	

Photo 3 of 3 : SP_2018_RD2060_241_32_20180305_00064.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.92	Rating **	M	Issue No.	33
LM End	4.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262128 °	38.262128 °
				-121.769175 °	-121.769175 °
DWR ID	DWR_RD2060_01_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.					
Site ID No:380					
Site Designation:LMA-207					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Reduced length of site from 275 to 62. No widespread erosion, just 2 small erosions upstream from adjacent riprap.					

Photo 1 of 3 : SP_2018_RD2060_241_33_20180305_00065.jpg



Photo 2 of 3 : SP_2018_RD2060_241_33_20180305_00066.jpg



LM Start	4.92	Rating **	M	Issue No.	33 (cont)
LM End	4.92	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	4.92	Rating **	M	Issue No.	33 (cont)
LM End	4.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262128 °	38.262128 °
				-121.769175 °	-121.769175 °
DWR ID	DWR_RD2060_01_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.					
Site ID No:380					
Site Designation:LMA-207					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Reduced length of site from 275 to 62. No widespread erosion, just 2 small erosions upstream from adjacent riprap.					

Photo 3 of 3 : SP_2018_RD2060_241_33_20180305_00067.jpg



LM Start	5.00	Rating **	M	Issue No.	34
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262636 °	38.262658 °
				-121.770503 °	-121.770547 °
DWR ID	DWR_RD2060_01_f_2017_34				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.					
Site ID No:381					
Site Designation:LMA-208					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/17/2017					
Notes: Extended site from 15' to 75' to include LMA-209. Small erosions will become 1 site next high water due to sloughing between them.					

Photo 1 of 3 : SP_2018_RD2060_241_34_20180305_00068.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	5.00	Rating **	M	Issue No.	34 (cont)	
LM End	5.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.262636 °	38.262658 °	
				-121.770503 °	-121.770547 °	
DWR ID	DWR_RD2060_01_f_2017_34					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe.						
Site ID No:381						
Site Designation:LMA-208						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/17/2017						
Notes: Extended site from 15' to 75' to include LMA-209. Small erosions will become 1 site next high water due to sloughing between them.						

Photo 2 of 3 : SP_2018_RD2060_241_34_20180305_00069.jpg



Photo 3 of 3 : SP_2018_RD2060_241_34_20180305_00070.jpg



LM Start	5.00	Rating **	M	Issue No.	34 (cont)
LM End	5.01	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	03/28/2018 03/28/2018	Keith Millard

LM Start	5.08	Rating **	C	Issue No.	6
LM End	5.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.263157 °	38.263157 °
				-121.771543 °	-121.771543 °
DWR ID	DWR_RD2060_01_s _ 2012_6				
Comment Code					
Inspector Comment					
Repair or replace the cross gate.					

No Photos

LM Start	5.21	Rating **	A/W	Issue No.	18
LM End	6.90	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261717 °	38.274012 °
				-121.772152 °	-121.795407 °
DWR ID	DWR_RD2060_01_s _ 2017_18				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	5.67	Rating **	M	Issue No.	19
LM End	5.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.263257 °	38.263257 °
				-121.779758 °	-121.779758 °
DWR ID	DWR_RD2060_01_s _ 2017_19				
Comment Code					
Inspector Comment					
Repair or replace the cross gate.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 02 Ulatis Creek			Right	3.64
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/28/2018 - 3/28/2018			
DWR Inspector	Keith Millard			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			
	Jack Kuechler RD 2060			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	03/28/2018 03/28/2018	Keith Millard

LM Start	0.00	Rating **	M	Issue No.	6
LM End	0.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.289474 °	38.289474 °
				-121.775914 °	-121.775914 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46769					
DS_ID:22059					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: - Abandoned pump structure in stream needs proper abandonment- Not accessible due to wired fence					
FIELD_STRUCT_DESC: *ABANDONED* Pump structure in stream.					
Concrete distribution box on the landside (LS) slope. Not accessible due to a wire fence. [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 8/15/2013					

LM Start	0.00	Rating **	M	Issue No.	6 (cont)
LM End	0.00	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2018_46769_31088.jpg



WS view: abandoned pump support in stream/channel. Not accessible due to vegetation.

Photo 2 of 2 : UCIP_SP_2018_46769_31087.jpg



LS view: abandoned concrete distribution box. Not accessible due to wire fence.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Barbed wire fence on waterside has no permit.

Landside vegetation is acceptable at LM 0.12.

Page 2 of 6

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	03/28/2018 03/28/2018	Keith Millard

LM Start	1.74	Rating **	M	Issue No.	7	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.285219 °	38.285219 °	
				-121.777085 °	-121.777085 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18386 DS_ID:22056 EP_NO: 10148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: U-type concrete headwall on LS. Not accessible due to fence.Vegetation is partially blocking inlet & outlet pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

LM Start	1.74	Rating **	M	Issue No.	7 (cont)
LM End	1.74	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_18386_30873.jpg



WS view: overview of CMP from levee.

Photo 2 of 3 : UCIP_SP_2018_18386_30872.jpg



WS view: CM pipe with flap gate. Not accessible. Vegetation is partially blocking outlet pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	03/28/2018 03/28/2018	Keith Millard

LM Start	1.74	Rating **	M	Issue No.	7 (cont)	
LM End	1.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.285219 °		38.285219 °
				-121.777085 °		-121.777085 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18386 DS_ID:22056 EP_NO: 10148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: U-type concrete headwall on LS. Not accessible due to fence.Vegetation is partially blocking inlet & outlet pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013						

Photo 3 of 3 : UCIP_SP_2018_18386_30874.jpg



LS view: CM pipe with U shaped concrete headwall. Not accessible.
Vegetation is partially blocking inlet pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	03/28/2018 03/28/2018	Keith Millard

LM Start	2.15	Rating **	M	Issue No.	8
LM End	2.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290440 °	38.290440 °
				-121.774808 °	-121.774808 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41668
DS_ID:22060
EP_NO: 5927
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 8/15/2013

LM Start	2.15	Rating **	M	Issue No.	8 (cont)
LM End	2.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_41668_31161.jpg



WS view: electrical box on pole and pump structure in background.

Photo 2 of 3 : UCIP_SP_2018_41668_31160.jpg



WS view: pump on pile structure with stairs on bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	03/28/2018 03/28/2018	Keith Millard

LM Start	2.15	Rating **	M	Issue No.	8 (cont)	
LM End	2.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290440 °	38.290440 °	
				-121.774808 °	-121.774808 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41668						
DS_ID:22060						
EP_NO: 5927						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder.						
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 8/15/2013						

Photo 3 of 3 : UCIP_SP_2018_41668_31163.jpg



LS view: obstructed siphon breaker in steel riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway			Bank	Unit Miles
Unit No. 03 Cache Slough			Right	5.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/28/2018 - 3/28/2018			
DWR Inspector	Keith Millard			
Accompanied By	Mark Boyd RD 2060 Hastings Tract			
	Michael Moncrief MBK Engineers			
	Jack Kuechler RD 2060			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.07	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296350 °	38.296302 °
				-121.747642 °	-121.747565 °
DWR ID	DWR_RD2060_03_s_2017_16				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing on LS slope.					

Photo 1 of 2 : SP_2018_RD2060_243_16_20180305_00016.jpg



Looking down from the shoulder at the sloughing in the slope towards the irrigation ditch at toe.

LM Start	0.07	Rating **	M	Issue No.	16 (cont)
LM End	0.07	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_RD2060_243_16_20180305_00017.jpg



Standing on the slope looking upstream at the slough.

LM Start	0.10	Rating **	A/W	Issue No.	71
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296084 °	38.296084 °
				-121.747052 °	-121.747052 °
DWR ID	DWR_RD2060_03_s_2018_71				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor slump at toe likely due to cattle should be repaired.					

Photo 1 of 1 : SP_2018_RD2060_243_71_20180328_00171.jpg



Lower landside slope has slumped into ditch. Should be repaired.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.12	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.295919 °	38.295611 °
				-121.746700 °	-121.745742 °
DWR ID	DWR_RD2060_03_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Sloughing and seepage occurs near the land side toe.					
Site ID No:385					
Site Designation:LMA-212					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Moderate sloughing halfway down LS slope. Monitor for progression.					

Photo 1 of 3 : SP_2018_RD2060_243_13_20180305_00010.jpg



LM Start	0.12	Rating **	M	Issue No.	13 (cont)
LM End	0.18	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_243_13_20180305_00011.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

Standing at levee mile 0.15 looking downstream from the landside slope.

Page 3 of 48

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.15	Rating **	A/W	Issue No.	19 (cont)	
LM End	0.19	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.295738 °		38.295559 °
				-121.746293 °		-121.745583 °
DWR ID	DWR_RD2060_03_s_2017_19					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
There are several signs of sloughing occurring on the slope notices after the flood event Feb. 2017 storm. 10/11/17: This issue's rating has been changed from U to A/W in consideration of the DWR 2017 Levee Evaluation Storm Site entry.						

Photo 2 of 2 : SP_2018_RD2060_243_19_20180305_00024.jpg



Just upstream of the erosion site looking downstream from the landside slope.

LM Start	0.64	Rating **	M	Issue No.	14
LM End	0.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.292197 °	38.292208 °
				-121.739661 °	-121.739611 °
DWR ID	DWR_RD2060_03_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences near the edge of the crown and extends down the slope. Erosion has resulted in slippage into the waterside toe.					
Site ID No:386					
Site Designation:LMA-213					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes:					

Photo 1 of 3 : SP_2018_RD2060_243_14_20180305_00013.jpg



* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.64	Rating **	M	Issue No.	14 (cont)
LM End	0.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.292197 °	38.292208 °
				-121.739661 °	-121.739611 °
DWR ID	DWR_RD2060_03_f_2017_14				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences near the edge of the crown and extends down the slope. Erosion has resulted in slippage into the waterside toe.					
Site ID No:386					
Site Designation:LMA-213					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes:					

Photo 2 of 3 : SP_2018_RD2060_243_14_20180305_00014.jpg



Photo 3 of 3 : SP_2018_RD2060_243_14_20180305_00015.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.81	Rating **	M	Issue No.	15
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.291633 °	38.291606 °	
			-121.736750 °	-121.736714 °	
DWR ID	DWR_RD2060_03_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately 3/4 of the way down the slope. Erosion has resulted in slippage into the waterside toe. Site ID No: 388 Site Designation: LMA-215 Repair Type: Erosion Rating: Area of Concern Field Date: 7/20/2017 Notes: Narrow erosion on WS slope. Monitor for progression.					

No Photos

LM Start	0.90	Rating **	M	Issue No.	72
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.290684 °	38.290684 °	
			-121.735668 °	-121.735668 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID: 18727 DS_ID: 22067 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seem abandoned. Not found- pump on LS. Needs more exploration. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced]. FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_SP_2018_18727_31317.jpg



Waterside view: levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.90	Rating **	M	Issue No.	72 (cont)
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735668 °	-121.735668 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18727 DS_ID:22067 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seem abandoned.Not found- pump on LS. Needs more exploration. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced]. FS Date: 8/15/2013					

Photo 2 of 2 : UCIP_SP_2018_18727_31316.jpg



Waterside view: levee slope and a steel pipe.

LM Start	0.90	Rating **	M	Issue No.	73
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735639 °	-121.735639 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18726 DS_ID:22063 EP_NO: 6342 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky siphon breaker may need to be repaired. Dense vegetation on WS.Not found- gate valve on LS. FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_SP_2018_18726_31314.jpg



Landside view: pump, service pole, steel support structure, walkway, and pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	0.90	Rating **	M	Issue No.	73 (cont)	
LM End	0.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.290684 °	38.290684 °	
				-121.735639 °	-121.735639 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18726 DS_ID:22063 EP_NO: 6342 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky siphon breaker may need to be repaired. Dense vegetation on WS.Not found- gate valve on LS. FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013						

Photo 2 of 3 : UCIP_SP_2018_18726_31313.jpg



Landside view: pipe and pump on steel structure in drain ditch.

LM Start	0.90	Rating **	M	Issue No.	73 (cont)
LM End	0.90	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_18726_31315.jpg



Waterside view: only leaky siphon breaker found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.12	Rating **	A/W	Issue No.	17
LM End	1.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.290539 °	38.290544 °
				-121.731603 °	-121.731494 °
DWR ID	DWR_RD2060_03_f_2017_17				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences near the crown and has resulted in					
slippage into the waterside toe.					
Site ID No:389					
Site Designation:LMA-216					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/20/2017					
Notes: Vertical section sloughing halfway down WS slope. Continued					
erosion down WS slope. Recommemd repair before next high water.					

Photo 1 of 3 : SP_2018_RD2060_243_17_20180305_00018.jpg



Photo 2 of 3 : SP_2018_RD2060_243_17_20180305_00019.jpg



LM Start	1.12	Rating **	A/W	Issue No.	17 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.12	Rating **	A/W	Issue No.	17 (cont)	
LM End	1.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.290539 °	38.290544 °	
				-121.731603 °	-121.731494 °	
DWR ID	DWR_RD2060_03_f_2017_17					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences near the crown and has resulted in						
slippage into the waterside toe.						
Site ID No:389						
Site Designation:LMA-216						
Repair Type: Erosion						
Rating:Critical						
Field Date:7/20/2017						
Notes: Vertical section sloughing halfway down WS slope. Continued						
erosion down WS slope. Recommemd repair before next high water.						

Photo 3 of 3 : SP_2018_RD2060_243_17_20180305_00020.jpg



LM Start	1.12	Rating **	A/W	Issue No.	18
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.290558 °	38.290558 °
				-121.731580 °	-121.731580 °
DWR ID	DWR_RD2060_03_s_2017_18				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The District has scheduled repairs of this site. 10/11/17: This issue's rating has been changed from U to A/W in consideration of the DWR 2017 Levee Evaluation Storm Site entry.					

Photo 1 of 2 : SP_2018_RD2060_243_18_20180305_00021.jpg



Looking downstream at the erosion in the waterside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.12	Rating **	A/W	Issue No.	18 (cont)	
LM End	1.12	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.290558 °		38.290558 °
				-121.731580 °		-121.731580 °
DWR ID	DWR_RD2060_03_s_2017_18					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
The District has scheduled repairs of this site. 10/11/17: This issue's rating has been changed from U to A/W in consideration of the DWR 2017 Levee Evaluation Storm Site entry.						

Photo 2 of 2 : SP_2018_RD2060_243_18_20180305_00022.jpg



Looking upstream at the erosion on the waterside slope.

LM Start	1.21	Rating **	M	Issue No.	20
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.290511 °	38.290486 °
				-121.729867 °	-121.729603 °
DWR ID	DWR_RD2060_03_f _ 2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences 1/4 of the way down the slope with slippage towards the water side toe.					
Site ID No:390					
Site Designation:LMA-217					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/20/2017					
Notes: Erosion halfway down WS slope. Monitor for progression.					

Photo 1 of 3 : SP_2018_RD2060_243_20_20180305_00025.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.21	Rating **	M	Issue No.	20 (cont)
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.290511 °	38.290486 °	
			-121.729867 °	-121.729603 °	
DWR ID	DWR_RD2060_03_f_2017_20				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Erosion commences 1/4 of the way down the slope with slippage towards the water side toe.

Site ID No: 390

Site Designation: LMA-217

Repair Type: Erosion

Rating: Area of Concern

Field Date: 7/20/2017

Notes: Erosion halfway down WS slope. Monitor for progression.

LM Start	1.21	Rating **	M	Issue No.	20 (cont)
LM End	1.23	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_243_20_20180305_00026.jpg



Photo 3 of 3 : SP_2018_RD2060_243_20_20180305_00027.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.38	Rating **	M	Issue No.	21	
LM End	1.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.290067 °	38.289608 °	
				-121.726839 °	-121.726344 °	
DWR ID	DWR_RD2060_03_f_2017_21					
Comment Code						
Inspector Comment						
Levee Evaluation Comments Description:MBK Delta Erosion Sites_6-29-2017 Site ID No:482 Site Designation:LMA-320 Repair Type: Erosion Rating:Area of Concern Field Date:8/29/2017 Notes:						

Photo 1 of 3 : SP_2018_RD2060_243_21_20180305_00028.jpg



Photo 2 of 3 : SP_2018_RD2060_243_21_20180305_00029.jpg



LM Start	1.38	Rating **	M	Issue No.	21 (cont)
LM End	1.42	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph showing a grassy field with a body of water in the background. A power line tower is visible in the distance. The foreground is filled with dry, yellowish grass and some green plants. The sky is clear and blue. A timestamp "2007-10-10 10:00:00" is visible in the bottom right corner.Page 14 of 48

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.45	Rating **	M	Issue No.	22 (cont)	
LM End	1.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.289256 °	38.287689 °	
				-121.726050 °	-121.724658 °	
DWR ID	DWR_RD2060_03_f _ 2017_22					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe.						
Site ID No:392						
Site Designation:LMA-219						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/20/2017						
Notes: Moderate erosion present on WS slope. Monitor for progression.						

Photo 2 of 3 : SP_2018_RD2060_243_22_20180305_00032.jpg



Photo 3 of 3 : SP_2018_RD2060_243_22_20180305_00033.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.52	Rating **	A/W	Issue No.	8
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.288598 °	38.286051 °
				-121.725184 °	-121.722818 °
DWR ID	DWR_RD2060_03_s_2016_8				
Comment Code					
Inspector Comment					
Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013 - Site extended both upstream and downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_23-6_R]					

Photo 1 of 1 : SP_2018_RD2060_243_8_20180305_00008.jpg



USACE 2013 Photo #1

LM Start	1.62	Rating **	A/W	Issue No.	23
LM End	1.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.287336 °	38.287222 °
				-121.724364 °	-121.724253 °
DWR ID	DWR_RD2060_03_f_2017_23				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.					
Site ID No:393					
Site Designation:LMA-220					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/20/2017					
Notes: Moderate sloughing 8ft from WS crown. Erosion at high water mark.					

Photo 1 of 3 : SP_2018_RD2060_243_23_20180305_00034.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.62	Rating **	A/W	Issue No.	23 (cont)	
LM End	1.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.287336 °	38.287222 °	
				-121.724364 °	-121.724253 °	
DWR ID	DWR_RD2060_03_f_2017_23					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe. Existing rip rap has sloughed into the						
water side toe.						
Site ID No:393						
Site Designation:LMA-220						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/20/2017						
Notes: Moderate sloughing 8ft from WS crown. Erosion at high water						
mark.						

Photo 2 of 3 : SP_2018_RD2060_243_23_20180305_00035.jpg



Photo 3 of 3 : SP_2018_RD2060_243_23_20180305_00036.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.65	Rating **	M	Issue No.	24
LM End	1.73	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.286953 °	38.285939 °	
			-121.723958 °	-121.723061 °	
DWR ID	DWR_RD2060_03_f_2017_24				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope. Existing rip rap has sloughed into the water side toe. Site ID No: 394 Site Designation: LMA-221 Repair Type: Erosion Rating: Area of Concern Field Date: 7/20/2017 Notes: Site includes LMA-218. Erosion halfway down slope. Monitor for progression.					

No Photos

LM Start	1.84	Rating **	M	Issue No.	25
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.284825 °	38.284467 °	
			-121.721764 °	-121.720339 °	
DWR ID	DWR_RD2060_03_f_2017_25				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope and results in slippage into the waterside toe. Site ID No: 395 Site Designation: LMA-222 Repair Type: Erosion Rating: Area of Concern Field Date: 7/20/2017 Notes: Erosion halfway down slope. Monitor for progression.					

Photo 1 of 3 : SP_2018_RD2060_243_25_20180305_00037.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	1.84	Rating **	M	Issue No.	25 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.284825 °	38.284467 °	
				-121.721764 °	-121.720339 °	
DWR ID	DWR_RD2060_03_f_2017_25					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences halfway down the slope and results in						
slippage into the waterside toe.						
Site ID No:395						
Site Designation:LMA-222						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/20/2017						
Notes: Erosion halfway down slope. Monitor for progression.						

Photo 2 of 3 : SP_2018_RD2060_243_25_20180305_00038.jpg



Photo 3 of 3 : SP_2018_RD2060_243_25_20180305_00039.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.02	Rating **	A/W	Issue No.	1
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.284105 °	38.283302 °
				-121.718471 °	-121.717814 °
DWR ID	DWR_RD2060_03_s_2016_1				
Comment Code					
Inspector Comment					
2010 - Small maintenance site. 2015: No observed changes. [2015 Site ID: CHS_23-0_R]					

Photo 1 of 1 : SP_2018_RD2060_243_1_20180305_00001.jpg



USACE 2013 Photo #1

LM Start	2.02	Rating **	M	Issue No.	26
LM End	2.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.283914 °	38.283422 °
				-121.718614 °	-121.718206 °
DWR ID	DWR_RD2060_03_f_2017_26				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.					
Site ID No:396					
Site Designation:LMA-223					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion to high water line.					

Photo 1 of 3 : SP_2018_RD2060_243_26_20180305_00040.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.02	Rating **	M	Issue No.	26 (cont)
LM End	2.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.283914 °	38.283422 °
				-121.718614 °	-121.718206 °
DWR ID	DWR_RD2060_03_f_2017_26				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.					
Site ID No:396					
Site Designation:LMA-223					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion to high water line.					

Photo 2 of 3 : SP_2018_RD2060_243_26_20180305_00041.jpg



Photo 3 of 3 : SP_2018_RD2060_243_26_20180305_00042.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.12	Rating **	A/W	Issue No.	27
LM End	2.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.282733 °	38.282403 °
				-121.717683 °	-121.717428 °
DWR ID	DWR_RD2060_03_f_2017_27				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description:Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe. Site ID No:397 Site Designation:LMA-224 Repair Type: Erosion Rating:Serious Field Date:7/18/2017 Notes: Benched erosion with large cracks on slope above. Light veg in erosion.					

Photo 1 of 3 : SP_2018_RD2060_243_27_20180305_00043.jpg



Photo 2 of 3 : SP_2018_RD2060_243_27_20180305_00044.jpg



LM Start	2.12	Rating **	A/W	Issue No.	27 (cont)
LM End	2.15	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.12	Rating **	A/W	Issue No.	27 (cont)	
LM End	2.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.282733 °	38.282403 °	
				-121.717683 °	-121.717428 °	
DWR ID	DWR_RD2060_03_f_2017_27					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe.						
Site ID No:397						
Site Designation:LMA-224						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: Benched erosion with large cracks on slope above. Light veg in erosion.						

Photo 3 of 3 : SP_2018_RD2060_243_27_20180305_00045.jpg



LM Start	2.18	Rating **	A/W	Issue No.	7
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.282100 °	38.281510 °
				-121.716817 °	-121.716319 °
DWR ID	DWR_RD2060_03_s_2016_7				
Comment Code					
Inspector Comment					
2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-8_R]					

Photo 1 of 1 : SP_2018_RD2060_243_7_20180305_00007.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph showing a dense field of tall, golden-brown grasses, possibly a meadow or pasture. The grasses are dry and have a feathery appearance. In the background, there are some green shrubs and a clear blue sky. The overall scene is a natural, open landscape.Page 24 of 48

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.19	Rating **	A/W	Issue No.	28 (cont)
LM End	2.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.281839 °	38.281486 °
				-121.716964 °	-121.716661 °
DWR ID	DWR_RD2060_03_f_2017_28				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe.					
Site ID No:398					
Site Designation:LMA-225					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Erosion is near vertical with light veg. Existing rip rap to the left of site.					

Photo 3 of 3 : SP_2018_RD2060_243_28_20180305_00048.jpg



LM Start	2.29	Rating **	C	Issue No.	3
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.280919 °	38.275177 °
				-121.715756 °	-121.709777 °
DWR ID	DWR_RD2060_03_s_2012_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Veg site.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.30	Rating **	M	Issue No.	29
LM End	2.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.280667 °	38.280467 °
				-121.715664 °	-121.715242 °
DWR ID	DWR_RD2060_03_f_2017_29				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in slippage into the waterside toe.					
Site ID No:399					
Site Designation:LMA-226					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Vertical erosion at high water mark.					

Photo 1 of 3 : SP_2018_RD2060_243_29_20180305_00049.jpg

Could Not Find Photo

LM Start	2.30	Rating **	M	Issue No.	29 (cont)
LM End	2.33	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_243_29_20180305_00050.jpg

Could Not Find Photo

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.30	Rating **	M	Issue No.	29 (cont)	
LM End	2.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.280667 °	38.280467 °	
				-121.715664 °	-121.715242 °	
DWR ID	DWR_RD2060_03_f_2017_29					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the slope and results in slippage into the waterside toe.						
Site ID No:399						
Site Designation:LMA-226						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Vertical erosion at high water mark.						

Photo 3 of 3 : SP_2018_RD2060_243_29_20180305_00051.jpg

Could Not Find Photo

LM Start	2.35	Rating **	A/W	Issue No.	4
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.280377 °	38.278306 °
				-121.714633 °	-121.712722 °
DWR ID	DWR_RD2060_03_s_2016_4				
Comment Code					
Inspector Comment					
2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-6_R]					

Photo 1 of 1 : SP_2018_RD2060_243_4_20180305_00004.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph showing a coastal landscape. In the foreground, there are dense green shrubs and some dry, yellowish grass. A body of water is visible in the middle ground. In the background, a white vehicle is parked on a grassy dune. The sky is clear and blue.Page 28 of 48

Reclamation District No. 2060 Hastings

A photograph showing a coastal landscape. On the left is a body of water with some lily pads. A dense line of green shrubs separates the water from a sandy dune on the right. The dune is covered with dry, yellowish-brown grass and several white, fluffy flowers in the foreground. A date stamp '2009-09-18 14:00:00' is visible in the bottom right corner.Page 29 of 48

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.47	Rating **	M	Issue No.	32 (cont)	
LM End	2.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.278794 °		38.278533 °
				-121.713703 °		-121.713453 °
DWR ID	DWR_RD2060_03_f _ 2017_32					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.						
Site ID No:401						
Site Designation:LMA-228						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion and sloughing. Heavy veg flanking both sides.						

Photo 2 of 3 : SP_2018_RD2060_243_32_20180305_00056.jpg



Photo 3 of 3 : SP_2018_RD2060_243_32_20180305_00057.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.55	Rating **	A/W	Issue No.	5
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.278145 °	38.277774 °
				-121.712609 °	-121.712137 °
DWR ID	DWR_RD2060_03_s_2016_5				
Comment Code					
Inspector Comment					
2013 - Erosion pockets into the levee toe. 2015: Erosion pockets have increased in size. [2015 Site ID: CHS_22-5_R]					

Photo 1 of 1 : SP_2018_RD2060_243_5_20180305_00005.jpg



USACE 2013 Photo #1

LM Start	2.55	Rating **	M	Issue No.	33
LM End	2.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.277956 °	38.277928 °
				-121.712814 °	-121.712775 °
DWR ID	DWR_RD2060_03_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and extends to the waterside toe.					
Site ID No:402					
Site Designation:LMA-229					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Small but deep vertical cut down to water.					

Photo 1 of 3 : SP_2018_RD2060_243_33_20180305_00058.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.55	Rating **	M	Issue No.	33 (cont)
LM End	2.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.277956 °	38.277928 °
				-121.712814 °	-121.712775 °
DWR ID	DWR_RD2060_03_f_2017_33				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and extends to the waterside toe.					
Site ID No:402					
Site Designation:LMA-229					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Small but deep vertical cut down to water.					

Photo 2 of 3 : SP_2018_RD2060_243_33_20180305_00059.jpg



Photo 3 of 3 : SP_2018_RD2060_243_33_20180305_00060.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

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Reclamation District No. 2060 Hastings

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.64	Rating **	M	Issue No.	35 (cont)	
LM End	2.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.277106 °		38.277078 °
				-121.711489 °		-121.711447 °
DWR ID	DWR_RD2060_03_f _ 2017_35					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately 1/4 of the way down the slope and results in sloughing into the waterside toe.						
Site ID No:404						
Site Designation:LMA-231						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Small erosion and sloughing adjacent to revetted slope.						

Photo 2 of 3 : SP_2018_RD2060_243_35_20180305_00065.jpg



Photo 3 of 3 : SP_2018_RD2060_243_35_20180305_00066.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2060 Hastings

A photograph showing a shoreline with dense green vegetation and a body of water. A date stamp '10/10/2010 10:20:00' is visible in the bottom right corner.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	2.69	Rating **	A/W	Issue No.	36 (cont)	
LM End	2.73	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.276608 °	38.276133 °	
				-121.710811 °	-121.710394 °	
DWR ID	DWR_RD2060_03_f _ 2017_36					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Sloughing commences approximately halfway down the slope and extends to the waterside toe.						
Site ID No:405						
Site Designation:LMA-232						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: Vertical cut at highwater mark.						

Photo 3 of 3 : SP_2018_RD2060_243_36_20180305_00069.jpg



LM Start	3.17	Rating **	C	Issue No.	12
LM End	3.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.270863 °	38.270324 °
				-121.706800 °	-121.705904 °
DWR ID	DWR_RD2060_03_f_2017_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Following fire in 2012, vegetation has returned and been managed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.24	Rating **	M	Issue No.	37
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.270231 °	38.270203 °
				-121.705897 °	-121.705856 °
DWR ID	DWR_RD2060_03_f_2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.					
Site ID No:406					
Site Designation:LMA-233					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: Erosion is next to a pumphouse and slope is protected withrip rap.					

Photo 1 of 3 : SP_2018_RD2060_243_37_20180305_00070.jpg



Photo 2 of 3 : SP_2018_RD2060_243_37_20180305_00071.jpg



LM Start	3.24	Rating **	M	Issue No.	37 (cont)
LM End	3.24	Issue Type +	Ma	Location *	

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.24	Rating **	M	Issue No.	37 (cont)	
LM End	3.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.270231 °	38.270203 °	
				-121.705897 °	-121.705856 °	
DWR ID	DWR_RD2060_03_f_2017_37					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.						
Site ID No:406						
Site Designation:LMA-233						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/18/2017						
Notes: Erosion is next to a pumphouse and slope is protected withrip rap.						

Photo 3 of 3 : SP_2018_RD2060_243_37_20180305_00072.jpg



LM Start	3.24	Rating **	M	Issue No.	74
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270151 °	38.270151 °
				-121.705782 °	-121.705782 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18723					
DS_ID:22064					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Only a CMP riser was found on WS.					
FIELD_STRUCT_DESC: 36-inch asbestos bonded steel irrigation					
discharge pipe through the levee, 15 feet below the crown, not found.					
Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS)					
slope, found. Pump in pump house on a pile structure in the stream, not					
found. Service pole and anchor on the landside (LS) slope, not found.					
FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_SP_2018_18723_31303.jpg



WS view: slide gate in CMP riser (bottom- marked) and may be abandoned pile for pump support (marked- right).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.24	Rating **	M	Issue No.	74 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.270151 °	38.270151 °	
				-121.705782 °	-121.705782 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18723						
DS_ID:22064						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Only a CMP riser was found on WS.						
FIELD_STRUCT_DESC: 36-inch asbestos bonded steel irrigation						
discharge pipe through the levee, 15 feet below the crown, not found.						
Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS)						
slope, found. Pump in pump house on a pile structure in the stream, not						
found. Service pole and anchor on the landside (LS) slope, not found.						
FS Date: 8/15/2013						

LM Start	3.24	Rating **	M	Issue No.	74 (cont)
LM End	3.24	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_18723_31302.jpg



WS view: closer view of slide gate in CMP riser.

Photo 3 of 3 : UCIP_SP_2018_18723_31301.jpg



WS view: slide gate and air vent inside CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.59	Rating **	M	Issue No.	38
LM End	3.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.266408 °	38.266047 °
				-121.701650 °	-121.701061 °
DWR ID	DWR_RD2060_03_f_2017_38				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:MBK Delta Erosion Sites_6-29-2017					
Site ID No:484					
Site Designation:LMA-322					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/29/2017					
Notes:					

Photo 1 of 2 : SP_2018_RD2060_243_38_20180305_00073.jpg



LM Start	3.59	Rating **	M	Issue No.	38 (cont)
LM End	3.63	Issue Type +	Ma	Location *	

Photo 2 of 2 : SP_2018_RD2060_243_38_20180305_00074.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

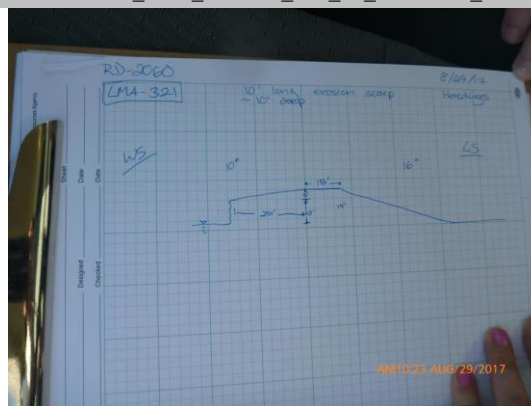
Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.66	Rating **	M	Issue No.	39	
LM End	3.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.265742 °	38.265342 °	
				-121.700522 °	-121.699881 °	
DWR ID	DWR_RD2060_03_f_2017_39					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:MBK Delta Erosion Sites_6-29-2017						
Site ID No:483						
Site Designation:LMA-321						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/29/2017						
Notes:						

Photo 1 of 1 : SP_2018_RD2060_243_39_20180305_00075.jpg



LM Start	3.78	Rating **	A/W	Issue No.	2
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.264585 °	38.260593 °
				-121.698868 °	-121.696403 °
DWR ID	DWR_RD2060_03_s_2016_2				
Comment Code					
Inspector Comment					
2011 - Several pockets of erosion from rotational failure and slumping toe. 2013 - Site extended downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_21-1_R]					

Photo 1 of 1 : SP_2018_RD2060_243_2_20180305_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.82	Rating **	A/W	Issue No.	40
LM End	3.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.264006 °	38.262364 °
				-121.698811 °	-121.698103 °
DWR ID	DWR_RD2060_03_f _ 2017_40				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site					
Site ID No:410					
Site Designation:LMA-237					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: This site is combined with LMA-234. There is minor toe erosion along whole 631 lf, but there is a 20' wide deep erosion at 38.26347, -121.69859. That is the only location that is serious and is likely due to a collapsed beaver den.					

Photo 1 of 3 : SP_2018_RD2060_243_40_20180305_00076.jpg



LM Start	3.82	Rating **	A/W	Issue No.	40 (cont)
LM End	3.94	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_243_40_20180305_00077.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	3.96	Rating **	A/W	Issue No.	41 (cont)
LM End	4.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262114 °	38.261583 °
				-121.697978 °	-121.697647 °
DWR ID	DWR_RD2060_03_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:411					
Site Designation:LMA-238					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: This site includes LMA-235. Wide erosion looks like several small sited merged. Heavy veg indicates slow erosion.					

Photo 2 of 3 : SP_2018_RD2060_243_41_20180305_00080.jpg



Photo 3 of 3 : SP_2018_RD2060_243_41_20180305_00081.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	4.06	Rating **	A/W	Issue No.	42
LM End	4.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260789 °	38.260644 °
				-121.696964 °	-121.696828 °
DWR ID	DWR_RD2060_03_f _ 2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site.					
Site ID No:412					
Site Designation:LMA-239					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Small erosion. Appears that site grows slowly with each high water. The center of the eosion is a deep cut that extends below rhe waterline. Possible beaver den collapse.					

Photo 1 of 3 : SP_2018_RD2060_243_42_20180305_00082.jpg



LM Start	4.06	Rating **	A/W	Issue No.	42 (cont)
LM End	4.08	Issue Type +	Ma	Location *	

Photo 2 of 3 : SP_2018_RD2060_243_42_20180305_00083.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	4.06	Rating **	A/W	Issue No.	42 (cont)							
LM End	4.08	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.260789 °	38.260644 °								
			-121.696964 °	-121.696828 °								
DWR ID	DWR_RD2060_03_f_2017_42											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site. Site ID No: 412 Site Designation: LMA-239 Repair Type: Erosion Rating: Serious Field Date: 7/17/2017 Notes: Small erosion. Appears that site grows slowly with each high water. The center of the erosion is a deep cut that extends below the waterline. Possible beaver den collapse.												

Photo 3 of 3 : SP_2018_RD2060_243_42_20180305_00084.jpg



LM Start	4.06	Rating **	A/W	Issue No.	43							
LM End	4.08	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.260789 °	38.260644 °								
			-121.696964 °	-121.696828 °								
DWR ID	DWR_RD2060_03_f_2017_43											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Site ID No: 409 Site Designation: LMA-236 Repair Type: Erosion Rating: Area of Concern Field Date: 7/18/2017 Notes: 3' cut to slope down to water, with a 50' deep cut. Heavy veg suggests slow progression of erosion.												

Photo 1 of 3 : SP_2018_RD2060_243_43_20180305_00085.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	03/28/2018 03/28/2018	Keith Millard

LM Start	4.06	Rating **	A/W	Issue No.	43 (cont)
LM End	4.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260789 °	38.260644 °
				-121.696964 °	-121.696828 °
DWR ID	DWR_RD2060_03_f_2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe.					
Site ID No:409					
Site Designation:LMA-236					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/18/2017					
Notes: 3' cut to slope down to water, with a 50' deep cut. Heavy veg suggests slow progression of erosion.					

Photo 2 of 3 : SP_2018_RD2060_243_43_20180305_00086.jpg



Photo 3 of 3 : SP_2018_RD2060_243_43_20180305_00087.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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